

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Number: 3

Sundry Print Report

Well Name: RUSTY FEDERAL Well Location: T22N / R7W / SEC 14 /

SESE / 36.134028 / -107.538856

County or Parish/State: SANDOVAL / NM

Type of Well: CONVENTIONAL GAS

Allottee or Tribe Name:

WELL

Lease Number: NMNM0554433

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number: 300432017100S1** 

Well Status: Gas Well Shut In

Operator: M & M PRODUCTION

& OPERATION

#### **Notice of Intent**

**Sundry ID: 2727257** 

Type of Submission: Notice of Intent Type of Action: Plug and Abandonment

Date Sundry Submitted: 04/21/2023 Time Sundry Submitted: 03:04

Date proposed operation will begin: 07/31/2023

Procedure Description: Enduring Resources submitted the Notice of Intent to Abandon as the Record Title Owner of the lease. See attached.

#### **Surface Disturbance**

Is any additional surface disturbance proposed?: No

#### **Oral Submission**

**Oral Notification Date:** Apr 21, 2023 **Oral Notification Time:** 

12:00 AM

**Contacted By:** 

Heather Huntington

**Contact's Email:** 

hhuntington@enduringresou

rces.com

#### **NOI Attachments**

## **Procedure Description**

NMNM0554433\_R\_Fed\_3\_04320171\_NOIA\_04212023\_20230421150245.pdf

eceived by OCD: 5/4/2023 11:55:58 AM
Well Name: RUSTY FEDERAL

Well Location: T22N / R7W / SEC 14 /

SESE / 36.134028 / -107.538856

County or Parish/State:

Page 2 of

SANDOVAL / NM

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Operator: M & M PRODUCTION

& OPERATION

# **Conditions of Approval**

#### **Additional**

22N07W14PKmv\_Rusty\_Federal\_003\_20230502164508.pdf

General\_Requirement\_PxA\_20230502180218.pdf

2727257\_NOIA\_COA\_3\_3004320171\_KR\_05022023\_20230502180206.pdf

#### **BLM Point of Contact**

**BLM POC Name:** KENNETH G RENNICK

**BLM POC Phone:** 5055647742

**Disposition:** Approved

Signature: Kenneth Rennick

**BLM POC Title:** Petroleum Engineer

BLM POC Email Address: krennick@blm.gov

Disposition Date: 05/02/2023

Received

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APR 2 1 2023

FORM APPROVED OMB No. 1004-0137 Expires: December 31, 2024

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELL Strain Field Office II Indian, Allottee or Tribe Name

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

apandoned well.	JSE PORM 3 16U-3 (A	וסי (ער) for such proposals	·			
SUBMIT IN	TRIPLICATE - Other instru	7. If Unit of CA/Ag	reement, Name and/or No.			
1. Type of Well						
Oil Well Gas W	/ell Other	8. Well Name and I	8. Well Name and No. RUSTY FEDERAL 003			
2. Name of Operator M & M PRODUC	TION & OPERATION		9. API Well No. 30	-043-20171		
3a. Address PO BOX 175 COUNSELOR, NM 870		3b. Phone No. (include area code	10. Field and Pool RUSTY CHACK	or Exploratory Area A		
4. Location of Well (Footage, Sec., T., R	.,M., or Survey Description)	11. Country or Pari	11. Country or Parish, State			
800 FSL & 800 FEL SEC 14-22N-07W 36.1340218 -107.5388412			SANDOVAL CO	SANDOVAL COUNTY, NM		
12. CHE	CK THE APPROPRIATE BO	OX(ES) TO INDICATE NATURE	OF NOTICE, REPORT OR C	THER DATA		
TYPE OF SUBMISSION		TY	PE OF ACTION			
✓ Notice of Intent	Acidize	Deepen	Production (Start/Resum	e) Water Shut-Off		
Notice of Intent	Alter Casing	Hydraulic Fracturing	Reclamation	Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplete	Other		
Change Plans		✓ Plug and Abandon	Temporarily Abandon	_		
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal			

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

ENDURING RESOURCES AS THE RECORD TITLE OWNER REQUESTS TO PLUG AND ABANDON THIS WELL FOR M&M PRODUCTIONS BASED ON NOTICE OF ORDER 22KR0108W ISSUED BY BLM. PLUGGING PROCEDURE, WELLBORE DIAGRAM, AND RECLAMATION PLAN ARE ATTACHED.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) HEATHER HUNTINGTON	PERMITTING TECHN	IICIAN	
Signature H	Date 4-31-	23	
THE SPACE FOR FEDE	RAL OR STATE OF	CE USE	
Approved by			
	Title	Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.			

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## **ENDURING RESOURCES IV, LLC**

#### PLUG AND ABANDONMENT PROCEDURE

WELL: Rusty Federal 003 Latitude 36.13402180 N

API: 30-043-20171 Longitude 107.5388412 W

ER WELL: NM03055.01

LOCATION: 800' FSL & 800' FEL, Sec.14, 22N, 7W

COUNTY: Sandoval
STATE: NM
AFE: WO01717

PRIVING DIRECTIONS: From the intersection of US HWY 550 & US HWY 64 in Bloomfield, NM:

South on US HWY 550 for 48.9 miles to MM 103/1; Right (South) on Atkins Road for 5.4 miles to Y; Left (South) remaining on Atkins Road for 1.9 miles to fork; Left (South) for 0.7 miles; Left (South) for 1.2 miles to four way; hard Left (North East) for 0.1 miles, Right (South East) for 1.0 miles to T, Straight (South East) on lease road for 150 feet then Right (South West) for 200 feet to Rusty Federal 003 location.

NOTES: 1) All cement volumes assume 100% excess volume outside pipe and 50' excess inside pipe. Cement will be Type III (14.6 ppg and 1.39 cuft/sx), or similar. A stabilizing wellbore fluid with density of 8.3 ppg will be sufficient to balance pressures encountered in the well.

- 2) Any waste fluids circulated from the well to surface, including excess cement, will be stored in steel tanks and then disposed of at an approved disposal facility.
- 3) Notify BLM and NMOCD prior to beginning P&A well-work operations. Comply with all BLM and NMOCD regulations. Obtain approval from BLM and NMOCD prior to making any changes or adjustments to the approved procedure.
- 4) Plugs will be adjusted as necessary depending on the results of of any RCBLs and pressure tests. All logs and pressure test results will be submitted / reported to Regulatory Agencies.
- 5) Wait on cement, tag, and spot additional cement plugs as necessary depending on results of casing pressure tests.
- 6) Hold safety meetings daily (minimum) with all personnel on location. Record tubing, casing, and bradenhead pressures daily on reports.
- 7) Test and install rig anchors, if necessary (if rig does not have a base-beam).

PROCEDURE: 1) MIRU daylight pulling unit and associated equipment.

- 2) Blow down well. Kill well, if necessary (well is currently in TA status; should not require blowing down or killing).
- 3) ND WH. NU BOPE. POH with tubing. RU wireline. Run CBL from PBTD to surface.
- 4) PU and TIH with 4-1/2" cast iron cement retainer (CICR) on 2-3/8" work-string to 1,700'. Set CICR, sting out, load annulus and press test to 500 psi. Sting in and establish injection rate minimum of 2 bpm

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5) PLUG #1: CHACRA AND CHACRA PERFORATIONS

TIH with 4-1/2" CR on 2-3/8" work-string. Pump cement, 10 sx below CIRC, sting out, pump remainder of 4 sx on top of the CR. Pull 3 stds and reverse tubing clean. TOOH to 1,413' MD.

Perf holes: 1762 to 1804' 1,700'

4-1/2" CR:

Plug Coverage:

1,700'

Cement Volume Below CICR: Cement Volume Above CICR: 10 sx

4 sx

TOTAL 14 sx

- 6) Pressure test to 500 psi.
- 7) TIH with tubing to 1,413' MD. Pump cement as follows:
- 8) PLUG #2: PICTURE CLIFFS, FRUITLAND AND OJO ALAMO TOPS

Spot balanced plug down work-string displacing cement with 2 bbls clean water. TOOH to 700'. Reverse out tubing. POH.

to

Plug Coverage:

799

to

1,413

145'

1,804'

Cement Volume:

43 sx

43 sx TOTAL

- 9) RU wireline. Perforate 1' at 4 spf at 145' MD. Establish circulation and cement as follows:
- 10) PLUG #3: NACIMIENTO TOP, SURFACE CASING SHOE, SURFACE

Circulate cement down 4.5" casing.

Plug Coverage:

0'

to

**Cement Volume:** 

55 sx

0 0

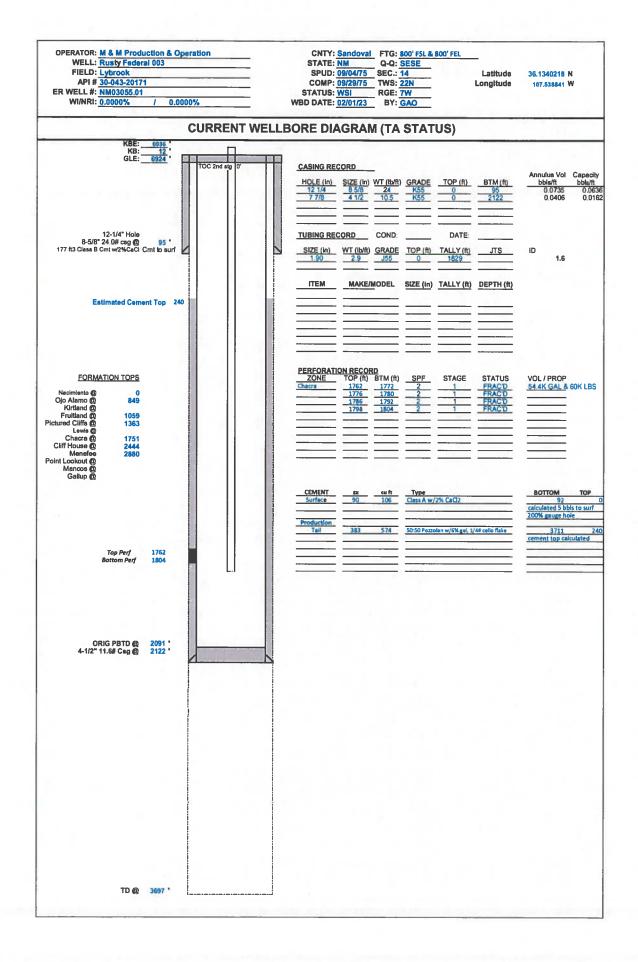
SX

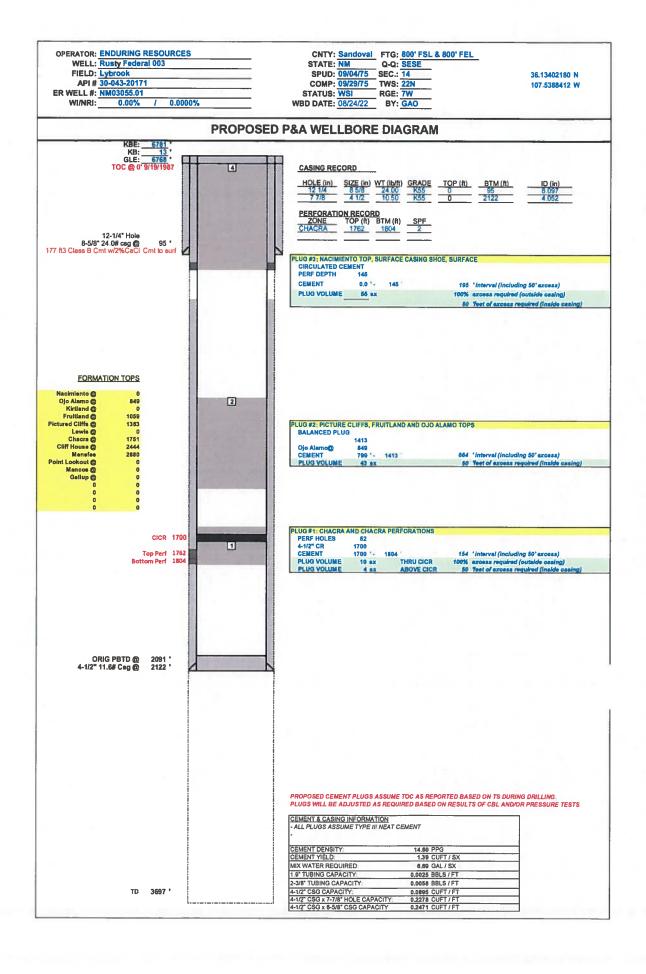
- 55 sx TOTAL 11) ND BOPE. Cut off casing and wellhead (minimum of 3' below finished grade). Top off annulus and casing with cement, if required. RDMO cement equipment. Install P&A marker to comply with BLM and NMOCD regulations. RDMO.
- 12) Complete surface reclamation as per approved reclamation plan.

Created by:

G Olson

2/1/2023





## BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 5/2/2023

Well No. Rusty Federal #003 (API	Location	800	FSL	&	800	FEL	
Lease No. NMNM0554433	Sec. 14	T22N			R07W		
Operator M & M Production & Operation		County	Sandoval		State	New Mexico	
Total Depth 3697'	PBTD 2091'	Formation	Chacra				
Elevation (GL)	Elevation (KF	3) 6924'					

<b>Geologic Formations</b>	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	849	Surface/freshwater sands
Ojo Alamo Ss			849	1028	Aquifer (possible freshwater)
Kirtland Shale			1028	1200	Possible gas
Fruitland			1200	1363	Coal/Gas/Water
Pictured Cliffs Ss			1363	1548	Probable Gas
Lewis Shale			1548	1751	
Chacra			1751	PBTD	Gas
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

#### Remarks:

P & A

- Sundry ID: 2727257

Reference Well:
1) Formation Tops
Same

- Note: Enduring Resources, LLC is plugging this well as record title owner of the lease.
- Chacra perfs 1762' 1804'.

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2727257

Attachment to notice of Intention to Abandon

Well: Rusty Federal 3

#### **CONDITIONS OF APPROVAL**

- 1. Plugging operations must be completed by December 31, 2023.
- Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
- 3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 05/02/2023

# GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

- 1.0 The approved plugging plans may contain variances from the following <u>minimum general</u> requirements.
  - 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
  - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
  - 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
  - 4.1 The cement shall be as specified in the approved plugging plan.
  - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.3 Surface plugs may be no less than 50' in length.
  - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
  - 4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.

2

- 5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.
  - 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
  - 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
  - 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
  - 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.
- 6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.
  - 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
  - 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain  $H_2S$ .
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

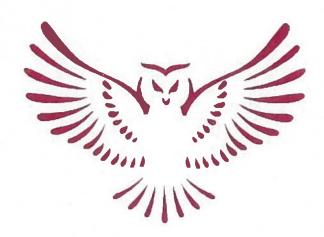
All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

# **SURFACE RECLAMATION PLAN**

# Rusty Federal 003

# Oil and Natural Gas Wells Project

**APRIL 2023** 



ENDURING RESOURCES IV, LLC

**200 Energy Court** 

Farmington, New Mexico 87401

Phone: (505) 636-9720

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#### 1. INTRODUCTION

Enduring Resources IV, LLC (Enduring), is providing this Surface Reclamation Plan (Reclamation Plan) to the Bureau of Land Management (BLM) Farmington Field Office (FFO) for their Rusty Federal 003 Oil and Natural Gas Wells Project. During interim and final reclamation, Enduring will meet the reclamation standards provided in this Reclamation Plan to reestablish vegetation and control noxious weeds and erosion. The reclamation standards provided in this plan are habitat-specific and meet standards established in *The Gold Book: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (The Gold Book)* (BLM and U.S. Forest Service 2007). Enduring will be responsible for all surface disturbance until they obtain a Final Abandonment Notice (FAN) or relinquishment from the BLM-FFO.

Information associated with the project is provided in Table 1.

**Table 1. Project Information** 

Applicant:	Enduring Resources IV, LLC		
Project Name:	Rusty Federal 003 Oil and Natural Gas Wells Project		
Project Features:	One well pad with one well and production facilities		
Lease Number(s):	NMNM-0554433		
Land Manager(s):	BLM-FFO		
Mineral Manager(s):	BLM-FFO		
Associated Authorization Applications, Pending:	Not applicable		

Enduring may submit a request to the BLM-FFO to revise this Reclamation Plan at any time during the life of the project in accordance with *The Gold Book* (BLM and U.S. Forest Service 2007). Enduring would include justification for the revision request.

The Enduring contact person for this Reclamation Plan is:

Theresa Ancell
Regulatory Manager
Enduring Resources IV, LLC
200 Energy Court
Farmington, New Mexico 87401
(505) 636-9720

#### 2. PROJECT DESCRIPTION

#### 2.1. Project Infrastructure

Infrastructure to be fully reclaimed is one existing well pad. The well accesses federal minerals on lease.

#### 2.2. Location

The project area is in Sandoval County, New Mexico, approximately 57 miles south-southwest of Bloomfield, New Mexico. The project area can be accessed as follows:

- From Bloomfield (intersection of U.S. Route 550 and U.S. Route 64), travel south on U.S. Route 550 for approximately 49 miles.
- Turn right on Atkins Road and continue for 4.3 miles.
- Turn left on Cornfield Road and continue for 1.2 miles.
- The access road is staked on the left side of the road and continues for 2.5 miles to the well pad.

The project area is on BLM-FFO Federal Minerals Office—managed surface. The legal location is provided below.

#### 2.2.1. Well Pad

BLM-FFO-managed surface

#### Township 22 North, Range 7 West, New Mexico Principal Meridian

Section 14: SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>.

#### 2.3. Estimated Total Area of Disturbance

The Rusty Federal 003 well pad encompasses a total of 0.93 acre of existing surface disturbance. Disturbance is summarized in Table 2 and described below.

Table 2. Surface Disturbance Associated with the Project

Project Feature	Summarized Description	Landowner/ Land Manager	Surface Disturbance/ Reclamation Area (acres)
Well pad	The well pad measures approximately 100 × 90 feet	BLM	0.93
Total		Billian	0.93

#### 2.4. Well Pad

The well pad occupies 100 × 90 feet. The total disturbance surface area to be reclaimed is 0.93 acre.

#### 3. SITE CONDITIONS

The project area topography is fairly level. The elevation of the project area ranges from approximately 6,933 to 6,942 feet above mean sea level. One soil type is mapped within the project area: Doakum-Betonnie fine sandy loams (Natural Resources Conservation Service 2023). Based on the climatic records for Lybrook, New Mexico (Station No. 295290), this area has an average annual maximum temperature of 61.1 degrees Fahrenheit and an average annual minimum temperature of 34.9 degrees Fahrenheit. The average annual rainfall is 10.8 inches, with the majority occurring between July and September.

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The average annual total snowfall is 25.3 inches, which largely occurs between October and April (Western Regional Climate Center 2023).

#### 3.1. Vegetation Community

SWCA Environmental Consultants (SWCA) conducted a site visit of the project area on March 29, 2023. Biologists identified the sagebrush shrubland vegetation community within the project area and immediate vicinity. The project area or areas in close proximity have been disturbed by activity associated with existing two-track and county roads and livestock grazing.

Reclamation standards are based on eight BLM-FFO-designated vegetation communities that are outlined in the Farmington Field Office Bare Soil Reclamation Procedures (Bare Soil Reclamation Procedures) (BLM 2013).

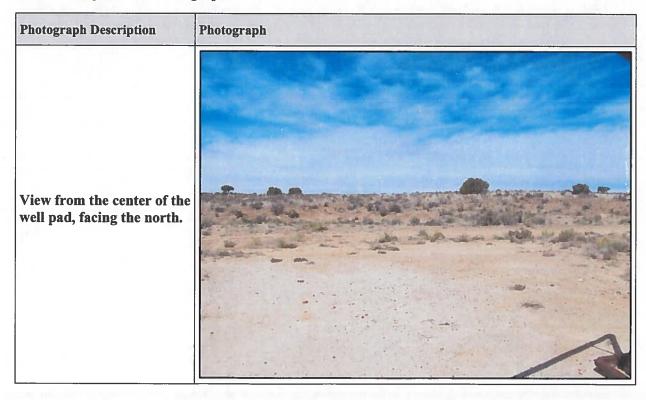
#### 3.2. Noxious Weeds

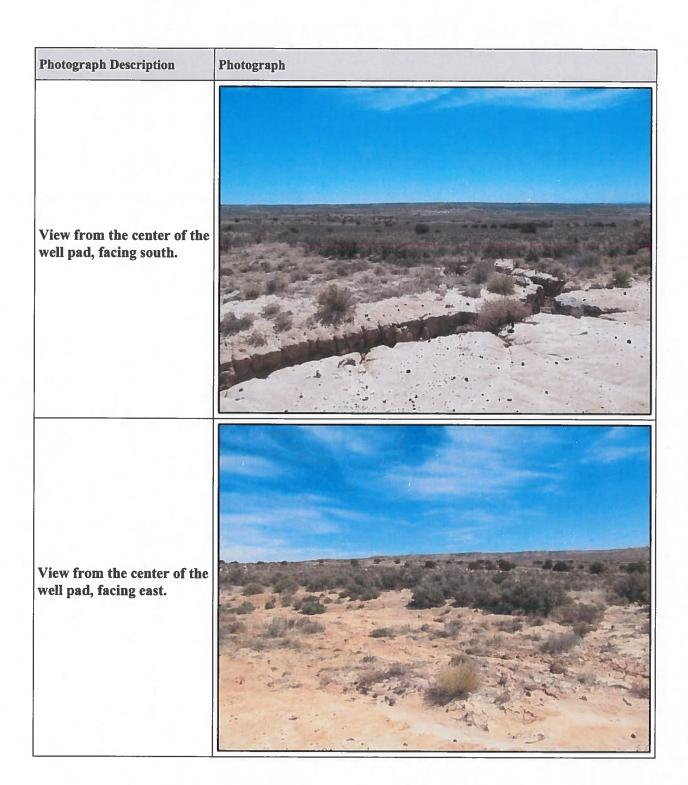
On March 29, 2023, SWCA and Enduring personnel conducted a noxious weed survey during the biological survey for New Mexico Department of Agriculture (NMDA)—listed Class A and Class B noxious weeds in the project area. No NMDA-listed Class A noxious weed species were identified within the project area. One NMDA-listed Class B noxious weed species, saltlover, also known as halogeton (Halogeton glomeratus), was identified within the project area.

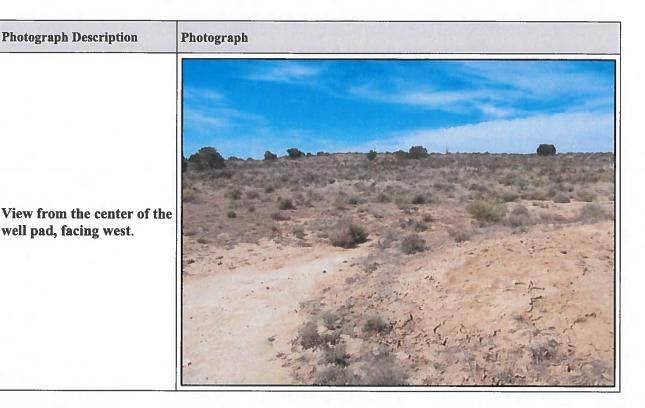
#### 3.3. Project Area Photographs

Photographs of the project area to be reclaimed are provided in Table 3.

Table 3. Project Area Photographs







#### 4. RECLAMATION

#### 4.1. On-Site Meeting

An on-site meeting may be conducted prior to reclamation activities, if requested by the BLM.

#### 4.2. Vegetation Reclamation Standards

The Rusty Federal 003 well pad is on lease on BLM-FFO-managed land. Requirements for determining reclamation and its successful completion of the selected vegetation community on BLM lands are determined by the reclamation percent cover standards for the community, as outlined in Table 4. These standards must be met on BLM-managed lands during post-disturbance monitoring procedures in order for the BLM-FFO to sign off on the attainment of vegetation reclamation standards.

Table 4. Reclamation Goal for Sagebrush Community

Functional Group	Percent (%) Foliar Cover	Common Species
Trees/shrubs/grasses/forbs	≥35	Utah juniper, piñon pine, big sagebrush, fourwing saltbush, antelope bitterbrush, alkali sacaton, Western wheatgrass, Indian ricegrass, galleta, sand dropseed, scarlet globemallow, woolly Indian wheat, fleabane, beardtongue, buckwheat, threadleaf groundsel.
Invasive/undesirables 10% allowed toward meeting standard of 35%	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant community. Examples of invasive species include cheatgrass, Russian thistle, and kochia.

#### 4.3. Project Area Weed Survey

During the field visit, the proposed project area was surveyed for noxious weeds listed on the NMDA's Class A and Class B noxious weeds list. No NMDA Class A-listed species were identified. One NMDA-listed Class B noxious weed species, saltlover, also known as halogeton, was identified within the project area.

#### 4.4. Project Area Soil Evaluation

Soil testing may be conducted prior to reclamation activities, if requested by the BLM.

# 5. RECLAMATION TECHNIQUES FOR SUCCESSFUL REVEGETATION

All activities associated with abandonment or termination of the Rusty Federal 003 well pad will be limited to areas shown in Figure A-2 (Appendix A).

#### 5.1. Vegetation and Site Clearing

If present, trees and brush 3 inches in diameter or greater at ground level will be cut and stacked for wood gatherers. All other trees and brush will be mowed or mulched at ground level. Stumps and root balls will be hauled to an approved disposal site or stockpiled at the edge of the well pad and buried in the cut slopes of the well pad during interim reclamation. Any slash and brush will be chipped, shredded, or mulched and incorporated into the topsoil for later use in interim reclamation. Vegetation that has reestablished within the interim reclaimed portions of the disturbance area will be mulched and incorporated into the topsoil as additional organic matter.

#### 5.2. Topsoil Stripping, Storage, and Replacement

The upper 6 inches of topsoil (if available) will be stripped following vegetation mulching. Topsoil will not be mixed with the underlying subsoil horizons and will be stockpiled as a berm/windrow along the interior perimeter of the construction buffer zone. Topsoil and sub-surface soils will be replaced in the proper order, prior to final seedbed preparation. Topsoil will be spread evenly over sub-soils upon completion of recontouring operations and prior to final seedbed preparation. Redistribution of topsoil shall not be done when the ground or topsoil is wet. Vehicle/equipment traffic will not be allowed to cross topsoil stockpiles. If topsoil is stored for a length of time such that nutrients are depleted from the topsoil, amendments will be added to the topsoil as advised by the Enduring environmental scientist or appropriate agent/contractor.

#### 5.3. Recontouring

All disturbed areas related to the Rusty Federal 003 well pad will be recontoured to blend with the surrounding landscape, emphasizing restoration of the existing drainage patterns and landforms to preconstruction condition to the extent practicable.

The well pad will be contoured to blend with the surrounding landforms, removing signs of cut/fill slopes. Natural rolling contours will be implemented to break up the surface and aid in removing signs of the well pad once vegetation establishes.

#### 5.4. Water Management/Erosion Control Features

A formal on-site visit will be required to determine the water and erosion control management appropriate for the project. The BLM-FFO representative and the Enduring representative will work in collaboration to develop site-specific erosion control or water management features and to identify installation locations. Potential erosion control or water management features that may be used include water bars or rolling dips for roads, sediment basins or sediment traps, check dams, silt fencing, bellholes upstream of culverts, outlet protection for culverts, erosion control blankets, straw bales, and straw wattles.

As will be determined during the on-site visit, the following water management/erosion control features may be implemented during construction of the project:

- Multiple silt traps may be incorporated into the reclamation. The exact location and size of silt traps would be determined during reclamation to best fit the recontoured terrain. These silt traps would help slow the velocity of stormwater through the location, allow settling of suspended materials, and minimize erosion. The exact location and size of these silt traps would be determined during reclamation to best fit the recontoured terrain.
- Diversions may be via rolling berms as opposed to cut diversion ditches.
- Excelsior wattles or other biodegradable material may be used to prevent cutting and sediment transportation if needed within diversions and spillways.
- Ripping and disking may be conducted perpendicular to the recontoured slopes to promote water retention and provide terracing to prevent erosion and rills.

During interim reclamation, areas of the project that are not needed for long-term well operations and maintenance would be recontoured to reestablish disturbed terrain and blend into the surrounding landscape. The natural drainage network would be reestablished as practicable with necessary diversions and silt traps around the long-term project footprint.

#### 5.5. Seedbed Preparation

For cut-and-fill slopes, initial seedbed preparation will consist of pushing (dozer), excavating (excavator), or hauling (belly scraper) the unneeded fill slope material and placing it within the cut slopes. Natural rolling contours will be implemented to break up the surface and aid in removing signs of the sharp well pad corners once vegetation establishes. Emphasis will be placed on restoration of the existing drainage patterns and landforms to preconstruction conditions, to the extent practicable.

Within areas that will be reseeded, stockpiled topsoil will be evenly redistributed prior to final seedbed preparation. Seedbed preparation within compacted areas will consist of ripping to a minimum depth of 18 inches and spacing furrows 2 feet apart. Ripping will be conducted perpendicularly in two phases, where practicable. If large clumps/clods result from the ripping process, disking will be conducted perpendicular to slopes in order to provide terracing and minimize runoff and erosion. Final seedbed preparation will consist of raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted)

seedbed without surface crusting. Seedbed preparation may not be necessary for topsoil storage piles or other areas of temporary seeding.

#### 5.6. Soil Amendments

Soil amendments will be added to the topsoil, if needed, as advised by the Enduring environmental scientist or appropriate surface managing agency.

#### 5.7. Seeding

Table 5 lists the seed mixes chosen for this project area. Seeding will occur immediately following recontouring and seedbed preparation. A disk-type seed drill with two boxes for various seed sizes will be used for seeding the disturbed areas of the site. Enduring or its reclamation subcontractor will ensure that perennial grasses and shrubs are planted at the appropriate depth. Small seeds (such as sand dropseed) will be planted at a depth of 0.25 inch; intermediate-sized seeds (such as wheatgrasses and shrubs) will be planted at a depth of 0.5 inch; and larger seeds (such as Indian ricegrass) will be planted at a depth of 1 to 2 inches. In situations where differing planting depths are not practicable with the equipment being used, the entire mix will be planted no deeper than 0.25 inch. A drag, packer, or roller will follow the seeder to ensure uniform seed coverage and adequate compaction. Seeding will be run perpendicular to slopes in order to minimize runoff and erosion.

Drill seeding may be used on well-packed and stable soils on gentler slopes and where tractors and drills can safely operate. Where drill seeding is not practical, the contractor will hand broadcast seed using a "cyclone" hand seeder or similar broadcast seeder. Galleta seed may also be broadcast; due to the light fluffy nature of this seed, it does not seed well through a drill seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed will then be raked into the ground so that the seed is planted no deeper than 0.25 inch below the surface.

Upon completion of seeding, straw mulch will be spread across the reclaimed area and crimped into the soil. This will promote site stabilization and slightly increase moisture retention.

Table 5. BLM-FFO Sagebrush Community Seed Mix

Common Name	Scientific Name	Variety	Season	Form	Pure Live Seed pounds per acre*
Fourwing saltbush	Atriplex canescens	Variety not stated (VNS)	Cool	Shrub	2.0
Winterfat	Krascheninnikovia lanata	VNS	Cool	Shrub	2.0
Sand dropseed	Sporobolus cryptandrus	VNS	Warm	Bunch	0.5
Western wheatgrass	Pascopyrum smithii	Arriba	Cool	Sod-forming	4.0
Indian ricegrass	Achnatherum hymenoides	Paloma or Rimrock	Cool	Bunch	4.0
Blue grama	Bouteloua gracilis	Alma or Hachita	Warm	Sod-forming	2.5

Common Name	Scientific Name	Variety	Season	Form	Pure Live Seed pounds per acre*
Bottle brush squirreltail	Elymus elymoides	Tusas or VNS	Cool	Bunch	3.0
Blue flax	Linum lewisii	Apar	Cool	Forb	0.25
Rocky Mountain bee plant	Cleome Serrulata	Local or VNS	Cool	Forb	0.25

<sup>\*</sup> Based on 60 pure live seed pounds per square foot, drill seeded; double this rate (120 pure live seed pounds per square foot) if broadcast seeded or hydroseeded.

#### 5.8. Noxious and Invasive Weed Control

Should any noxious or invasive weeds be documented on any portions of the project area after earthwork and seeding activities, Enduring will work with the surface managing agency to treat the weeds with approved herbicides and to follow up on any other site-specific instructions agreed upon.

## 6. MONITORING REQUIREMENTS

Monitoring for project areas on BLM-managed lands will be completed according to the BLM's *Bare Soil Reclamation Procedures* (BLM 2013). Monitoring activities will be initiated after the project is completed (interim monitoring), during the post-disturbance earthwork, and during the seeding inspection process. Additionally, a sundry notice stating that reclamation work has been completed will be submitted to the BLM-FFO. A joint inspection of the reclamation may be conducted if requested by any party. Once a self-sustaining, vigorous, diverse, native (or otherwise accepted) plant community is established and erosion has been controlled as described in Section 5.7 above, Enduring will submit a sundry notice (FAN) requesting approval of the remediated project as described in this plan. Enduring will include photographs with the sundry notice as supporting documentation.

#### 6.1. Initiation

During the post-disturbance site inspection at the project site on BLM lands, the BLM-FFO representative (in collaboration with the Enduring representative) will determine site-specific monitoring locations for photo point monitoring and vegetation line point intercept transects. The BLM-FFO will document the monitoring locations with GPS, take the initial monitoring photographs, and complete the initial monitoring report within 60 days of post-disturbance earthwork and seeding approval. The initial report will be available from the BLM-FFO. Photograph location requirements will be in accordance with the BLM's Bare Soil Reclamation Procedures (BLM 2013).

#### 6.2. Annual Monitoring and Reporting

The operator will be responsible for annual monitoring of the photo points and the vegetation line point intercept transects starting 2 years after the completion and approval of the earthwork and seeding. Monitoring may occur during any time of the year. Vegetation line point intercept transects will be

monitored annually by the operator until attainment of vegetation reclamation standards is met. Enduring will submit the monitoring report to the BLM by December 31 of the year monitored.

#### 6.3. Attainment of Vegetation Reclamation Standards

When vegetation within BLM-managed lands appears to meet the standards listed in Table 4 and as required by the *Bare Soil Reclamation Procedures* (BLM 2013), Enduring may request BLM-FFO concurrence that vegetation percent cover standards have been attained any time after 2 calendar years of completion of earthwork and seeding. Enduring will submit a written report identifying that revegetation standards have been attained. The BLM-FFO will reply to the operator to confirm concurrence (or not) with a rationale for the determination within 60 days of receiving the request.

If the revegetation standards are not being attained, Enduring and the BLM-FFO will analyze the issues that may have contributed to vegetation reclamation failure or lack of meaningful progress. Remedial actions will be developed collaboratively if vegetation percent cover standards are not being attained.

#### 6.4. Long-Term Monitoring

After the required percent revegetation standard has been attained, Enduring will begin long-term monitoring. Every fifth year after attainment, Enduring will monitor the site at all established photo points to ensure the site remains productive and stable. Enduring will submit the monitoring report to the BLM by December 31 of the year monitored.

#### 6.5. Final Abandonment

If 1 acre or more of bare soil results from earthwork required in preparation for final abandonment, Enduring will follow this Reclamation Plan in accordance with the BLM's *Bare Soil Reclamation Procedures* (BLM 2013).

If final abandonment or relinquishment earthwork results in less than 1 acre but more than 0.1 acre of bare soil, Enduring will initiate this Reclamation Plan in accordance with the BLM's *Bare Soil Reclamation Procedures* (BLM 2013). Disturbed areas less than 0.1 acre are expected to revegetate naturally from seed sources adjacent to the disturbance.

Revegetation percent cover standards will be attained, documented, and submitted to the BLM-FFO by Enduring or an exception granted before the BLM-FFO will approve a FAN or relinquishment.

#### 6.6. Cessation of Monitoring

Monitoring requirements will remain in effect as long as the permit, grant, or authorization remains in force and until all infrastructure or associated facilities are abandoned by established BLM procedures and a FAN or relinquishment is issued by the BLM-FFO. Enduring will document that percent cover standards have been attained when submitting a request for a FAN or a relinquishment.

## 7. LITERATURE CITED

- Bureau of Land Management (BLM). 2013. Farmington Field Office Bare Soil Reclamation Procedures. Available at:
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- Natural Resources Conservation Service. 2023. Web Soil Survey. Available at: https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx. Accessed April 2023.
- Western Regional Climate Center. 2023. Climate Summary for Lybrook, New Mexico (Station No. 295290). Available at: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm5290. Accessed April 2023.

## APPENDIX A. MAPS

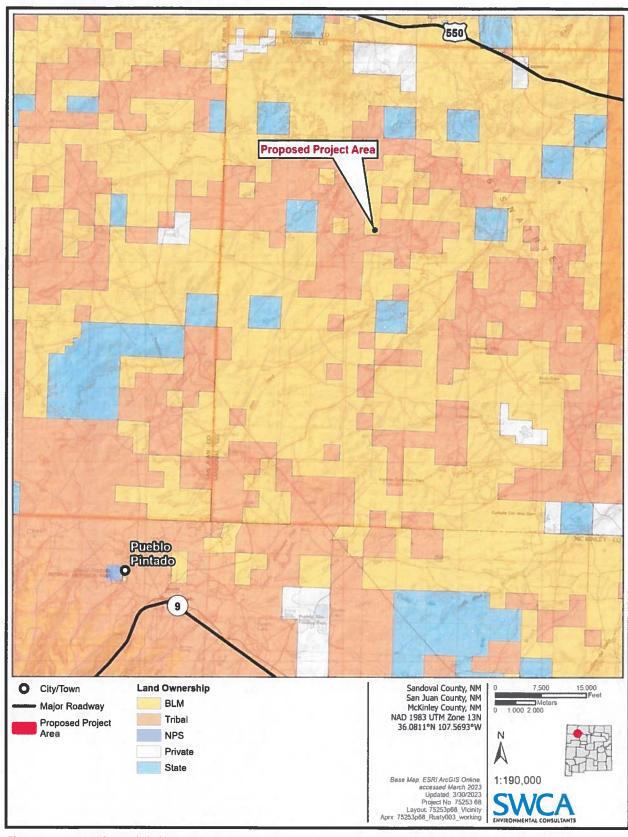


Figure A-1. Project vicinity.

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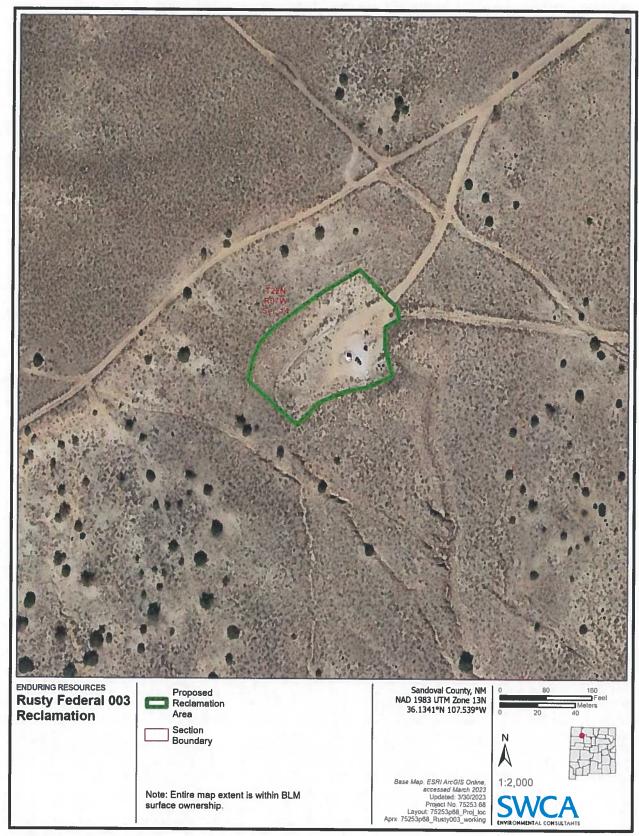


Figure A-2. Project area.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

COMMENTS

Action 213591

#### **COMMENTS**

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way, Suite 525	Action Number:
Centennial, CO 80111	213591
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### COMMENTS

Created By	Comment	Comment Date
john.harrison	Accepted for record - NMOCD JRH 5/17/23 BLM approved P&A 5/2/23	5/17/2023

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	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By		Condition Date
john.harrison	None	5/17/2023